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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 3

| Complete if Known | |
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| Application Number | 09/880,097 |
| Filing Date | June 14, 2001 |
| First Named Inventor | Anton WELLSTEIN |
| Art Unit | 1647 |
| Examiner Name | C. Nichols |
| Attorney Docket Number | 544582000200 |

## U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No.[1] | Document Number: Number-Kind Code[2] (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|---|---|---|---|---|---|
| DK | 1. | US-6,696,548-B2 | 02-24-2004 | Morris et al. | |

## FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No.[1] | Foreign Patent Document: Country Code[3]-Number[4]-Kind Code[5] (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T[6] |
|---|---|---|---|---|---|---|
| DK | 2. | WO-01/96394-A2, A3 | 12-20-2001 | Georgetown University Medical Center | | |

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## NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No.[1] | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[2] |
|---|---|---|---|
| DK | 3. | Albertoni, M. et al. (January 22, 1998). "Genetic Instability Leads to Loss of Both p53 Alleles in a Human Glioblastoma," *Oncogene* 16(3):321-326. | |
| DK | 4. | Bashkin, P. et al. (February 21, 1989). "Basic Fibroblast Growth Factor Binds to Subendothelial Extracellular Matrix and Is Released by Heparitinase and Heparin-Like Molecules," *Biochemistry* 28(4):1737-1743. | |
| DK | 5. | Basilico, C. et al. (1992). "The FGF Family of Growth Factors and Oncogenes," *In* Advances in Cancer Research Academic Press, Inc.: San Diego, CA 59:115-165. | |
| DK | 6. | Bowers, D.C. et al. (August 1, 2000). "Scatter Factor/Hepatocyte Growth Factor Protects Against Cytotoxic Death in Human Glioblastoma via Phosphatidylinositol 3-Kinase- and AKT-dependent Pathways," *Cancer Res.* 60(15):4277-4283. | |
| DK | 7. | Buczek-Thomas, J.A. et al. (1999). "Elastase-Mediated Release of Heparan Sulfate Proteoglycans from Pulmonary Fibroblast Cultures. A Mechanism for Basic Fibroblast Growth Factor (bFGF) Release and Attenuation of bFGF Binding Following Elastase-Induced Injury," *J. Biol. Chem.* 274:25167-25172. | |
| DK | 8. | Chauhan, A.K. et al. (January 1993). "Pleiotrophin Transforms NIH 3T3 Cells and Induces Tumors in Nude Mice," *Proc. Natl. Acad. Sci. USA* 90:679-682. | |
| DK | 9. | Choudhuri, R. et al. (May 1, 1997). "An Angiogenic Role for the Neurokines Midkine and Pleiotrophin in Tumorigenesis," *Cancer Res.* 57(9):1814-1819. | |
| DK | 10. | Czubayko, F. et al. (August 19, 1994). "Ribozyme-Targeting Elucidates a Direct Role of Pleiotrophin in Tumor Growth," *J. Biol. Chem.* 269(33):21358-21363. | |
| DK | 11. | Czubayko, F. et al. (November 11, 1994). "Tumor Growth and Angiogenesis Induced by a Secreted Binding Protein for Fibroblast Growth Factors," *J. Biol. Chem.* 269(45):28243-28248. | |
| DK | 12. | Czubayko, F. et al. (December 1996). "Melanoma Angiogenesis and Metastasis Modulated by Ribozyme Targeting of the Secreted Growth Factor Pleiotrophin," *Proc. Natl. Acad. Sci. USA* 93:14753-14758. | |
| DK | 13. | Czubayko, F. et al. (1997). "Adenovirus-Mediated Transduction of Ribozymes Abrogates HER-2/neu and Pleiotrophin Expression and Inhibits Tumor Cell Proliferation," *Gene Therapy* 4:943-949. | |

| Examiner Signature | | Date Considered | 5/18/05 |
|---|---|---|---|

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| Filing Date | June 14, 2001 |
| First Named Inventor | Anton WELLSTEIN |
| Art Unit | 1647 |
| Examiner Name | C. Nichols |
| Attorney Docket Number | 544582000200 |

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|---|---|---|---|
| DK | 14. | Czubayko, F. et al. (October 1997). "A Secreted FGF-Binding Protein Can Serve as the Angiogenic Switch in Human Cancer," *Nat. Med.* 3(10):1137-1140. | |
| DK | 15. | Dove, A. (March 1999). "Proteomics: Translating Genomics into Products?" *Nat. Biotechnol.* 17:233-236. | |
| DK | 16. | Fang, W. et al. (December 25, 1992). "Pleiotrophin Stimulates Fibroblasts and Endothelial and Epithelial Cells and Is Expressed in Human Cancer," *J. Biol. Chem.* 267(36):25889-25897. | |
| DK | 17. | Furnari, F.B. et al. (November 1997). "Growth Suppression of Glioma Cells by PTEN Requires a Functional Phosphatase Catalytic Domain," *Proc. Natl. Acad. Sci. USA* 94:12479-12484. | |
| DK | 18. | GenBank Accession No. U66559, created on February 24, 1997, located at <http://www.ncbi.nlm.nih.gov> last visited on March 3, 2005, three pages. | |
| DK | 19. | Hanahan, D. et al. (January 7, 2000). "The Hallmarks of Cancer," *Cell* 100:57-70. | |
| DK | 20. | Holland, E.C. (June 6, 2000). "Glioblastoma Multiforme: The Terminator," *Proc. Natl. Acad. Sci. USA* 97(12):6242-6244. | |
| DK | 21. | Holland, E.C. et al. (May 2000). "'Combined Activation of Ras and Akt in Neural Progenitors Induces Glioblastoma Formation in Mice," *Nat. Genet.* 25:55-57. | |
| DK | 22. | James, C.D. et al. (1996). "Molecular Genetics and Molecular Biology Advances in Brain Tumors," *Curr. Opin. Oncol.* 8:188-195. | |
| DK | 23. | Khwaja, A. (September 2, 1999). "Akt is More Than Just a Bad Kinase," *Nature* 401:33-34. | |
| DK | 24. | Klagsbrun, M. et al. (October 18, 1991). "A Dual Receptor System is Required for Basic Fibroblast Growth Factor Activity," *Cell* 67(2):229-231. | |
| DK | 25. | Li, D-M. et al. (December 1998). "PTEN/MMAC1/TEP1 Suppresses the Tumorigenicity and Induces G1 Cell Cycle Arrest in Human Glioblastoma Cells," *Proc. Natl. Acad. Sci. USA* 95:15406-15411. | |
| DK | 26. | Li, Y-S. et al. (December 21, 1990). "Cloning and Expression of a Developmentally Regulated Protein That Induces Mitogenic and Neurite Outgrowth Activity," *Science* 250:1690-1694. | |
| DK | 27. | Maehama, T. et al. (April 1999). "PTEN: A Tumour Suppressor That Functions as a Phospholipid Phosphatase," *Trends Cell Biol.* 9:125-128. | |
| DK | 28. | Merenmies, J. et al. (October 5, 1990). "Molecular Cloning of the 18-kDa Growth-Associated Protein of Developing Brain," *J. Biol. Chem.* 265(28):16721-16724. | |
| DK | 29. | Morris, S.W. et al. (March 4, 1994). "Fusion of a Kinase Gene, *ALK*, to a Nucleolar Protein Gene, *NPM*, in Non-Hodgkin's Lymphoma," *Science* 263:1281-1284. | |
| DK | 30. | Morris, S.W. et al. (January 20, 1995). "Fusion of a Kinase Gene, ALK, to a Nucleolar Protein Gene, NPM, in Non-Hodgkin's Lymphoma: Sequence Correction," - Erratum *Science* 267:316-317. | |
| DK | 31. | Motegi, A. et al. (2004). "ALK Receptor Tyrosine Kinase Promotes Cell Growth and Neurite Outgrowth," *J. Cell Science* 117:3319-3329. | |
| DK | 32. | Nishikawa, R. et al. (August 1994). "A Mutant Epidermal Growth Factor Receptor Common in Human Glioma Confers Enhanced Tumorigenicity," *Proc. Natl. Acad. Sci. USA* 91:7727-7731. | |
| DK | 33. | Nistér, M. et al. (September 5, 1991). "Differential Expression of Platelet-Derived Growth Factor Receptors in Human Malignant Glioma Cell Lines," *J. Biol. Chem.* 266(25):16755-16763. | |
| DK | 34. | Okada-Ban, M. (March 2000). "Fibroblast Growth Factor-2," *Int. J. Biochem. Cell Biol.* 32(3):263-267. | |
| DK | 35. | O'Rourke, D.M. et al. (April 1997). "Trans Receptor Inhibition of Human Glioblastoma Cells by erbB Family Ectodomains," *Proc. Natl. Acad. Sci. USA* 94:3250-3255. | |
| DK | 36. | Plate, K.H. et al. (October 29, 1992). "Vascular Endothelial Growth Factor is a Potential Tumour Angiogenesis Factor in Human Gliomas *in vivo*," *Nature* 359:845-848. | |
| DK | 37. | Powers, C.J. et al. (2000). "Fibroblast Growth Factors, Their Receptors and Signaling," *Endocr. Relat. Cancer* 7(3):165-197. | |
| DK | 38. | Schlessinger, J. (October 13, 2000). "Cell Signaling by Receptor Tyrosine Kinases," *Cell* 103:211-225. | |

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ALTERNATIVE TO PTO/SB/08a/b (06-03)

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| Art Unit | 1647 |
| Examiner Name | C. Nichols |
| Attorney Docket Number | 544582000200 |

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|---|---|---|---|
| DK | 39. | Schulte, A.M. et al. (December 1996). "Human Trophoblast and Choriocarcinoma Expression of the Growth Factor Pleiotrophin Attributable to Germ-Line Insertion of an Endogenous Retrovirus," *Proc. Natl. Acad. Sci. USA* 93:14759-14764. | |
| DK | 40. | Schulte, A.M. et al. (1997). "Pleiotrophin and Related Molecules" Chapter 21 *In* Tumor Angiogenesis Bicknell, R. et al. eds. Oxford University Press: Oxford, UK 1:273-289. | |
| DK | 41. | Schulte, A.M. et al. (July 1998). "Structure and Phylogenetic Analysis of an Endogenous Retrovirus Inserted into the Human Growth Factor Gene Pleiotrophin," *J. Virol.* 72(7):6065-6072. | |
| DK | 42. | Singer, H.S. et al. (1999). "Mitogenesis in Glioblastoma Multiforme Cell Lines: A Role For NGF and its TrkA Receptors," *J. Neuro-oncol.* 45(1):1-8. | |
| DK | 43. | Souttou, B. et al. (August 1, 1997). "Signal Transduction Pathways Involved in the Mitogenic Activity of Pleiotrophin. Implication of Mitogen-Activated Protein Kinase and Phosphoinositide 3-Kinase Pathways," *J. Biol. Chem.* 272(31):19588-19593. | |
| DK | 44. | Souttou, B. et al. (October 7, 1998). "Relationship Between Serum Concentrations of the Growth Factor Pleiotrophin and Pleiotrophin-Positive Tumors," *J. Natl. Cancer Inst.* 90(19):1468-1473. | |
| DK | 45. | Stoica, G.E. et al. (May 18, 2001). "Identification of Anaplastic Lymphoma Kinase as a Receptor for the Growth Factor Pleiotrophin," *J. Biol. Chem.* 276(20):16772-16779. | |
| DK | 46. | Wang, S.I. et al. (October 1, 1997). "Somatic Mutations of *PTEN* in Glioblastoma Multiforme," *Cancer Res.* 57:4183-1486. | |
| DK | 47. | Weber, D. et al. (March 1999). "Pleiotrophin (PTN) Serves as an Essential Growth Factor in Pancreatic Cancer," *Proceedings of the 90th Annual Meeting of the American Association for Cancer Research* (April 10 -14, 1999) Philadelphia, PA, 40:732, Abstract No. 4834. | |
| DK | 48. | Wellstein, A. et al. (February 5, 1992). "A Heparin-Binding Growth Factor Secreted From Breast Cancer Cells Homologous to a Developmentally Regulated Cytokine," *J. Biol. Chem.* 267(4):2582-2587. | |
| DK | 49. | Wellstein, A. et al. (1999). "Ribozyme Targeting of Angiogenic Molecules" Chapter 25 *In* Antiangiogenic Agents in Cancer Therapy Teicher, B.A. ed. Humana Press, Inc.: Totowa, NJ. pp. 423-441. | |
| DK | 50. | Wen, D. et al. (May 1, 1992). "Neu Differentiation Factor: A Transmembrane Glycoprotein Containing an EGF Domain and an Immunoglobulin Homology Unit," *Cell* 69:559-572. | |
| DK | 51. | Wen, S. et al. (April 10, 2001). "PTEN Controls Tumor-Induced Angiogenesis," *Proc. Natl. Acad. Sci. USA* 98(8):4622-4627. | |
| DK | 52. | Wu, D. et al. (September 5, 1991). "Characterization and Molecular Cloning of a Putative Binding Protein for Heparin-Binding Growth Factors," *J. Biol. Chem.* 266(25):16778-16785. | |
| DK | 53. | Yeh, H-J. et al. (May 15, 1998). "Upregulation of Pleiotrophin Gene Expression in Developing Microvasculature, Macrophages, and Astrocytes after Acute Ischemic Brain Injury," *J. Neurosci.* 18(10):3699-3707. | |
| DK | 54. | Zhang, N. et al. (July 4, 1997). "Human Breast Cancer Growth Inhibited *in Vivo* by a Dominant Negative Pleiotrophin Mutant," *J. Biol. Chem.* 272(27):16733-16736. | |

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| DK | 1. | European Examination Report for European Patent Application No. 01944466.0, mailed on March 22, 2005, 4 pages. | |

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